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FIFTH ADDENDUM
TO THE
BRITISH PHARMACOPŒIA
1932

PUBLISHED UNDER THE DIRECTION OF
THE GENERAL COUNCIL OF
MEDICAL EDUCATION AND REGISTRATION
OF THE UNITED KINGDOM

PURSUANT TO THE ACTS
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CONTENTS

NOTICE	iii
NOTICE CONCERNING CONCENTRATED PREPARATIONS	iii
PREFACE	iv
THE BRITISH PHARMACOPEIA COMMISSION	v
ADDITIONS TO THE BRITISH PHARMACOPEIA, 1932	vi
MONOGRAPH OF THE BRITISH PHARMACOPEIA, 1932, WHICH WAS AMENDED BY NOTICE IN THE LONDON, EDINBURGH, BELFAST AND DUBLIN GAZETTES, WITH EFFECT FROM MARCH 20TH, 1942	vi
MONOGRAPHS OF THE BRITISH PHARMACOPEIA, 1932, AND ADDENDA, WHICH ARE AMENDED BY THE FIFTH ADDENDUM	vi
APPENDICES TO THE BRITISH PHARMACOPEIA, 1932, AND ADDENDA, WHICH ARE AMENDED BY THE FIFTH ADDENDUM	vi
MONOGRAPHS	1
APPENDICES	18
CUMULATIVE INDEX TO THE FIRST, SECOND, THIRD, FOURTH AND FIFTH ADDENDA TO THE BRITISH PHARMACOPEIA, 1932	19

NOTICE

By Section 2 of the Medical Council Act 1862, the exclusive right of publishing, printing, and selling the British Pharmacopœia is vested in the General Council of Medical Education and Registration of the United Kingdom.

The British Pharmacopœia, 1932, superseded previous issues of the British Pharmacopœia, being for all purposes deemed to be substituted for such previous issues.

The Addendum, 1936, the Second Addendum, 1940, the Third Addendum, 1941, and the Fourth Addendum, 1941, altered and amended the British Pharmacopœia, 1932, and this Fifth Addendum effects further alterations and emendations. The General Notices and Appendices included in the British Pharmacopœia, 1932, the Addendum, 1936, the Second Addendum, 1940, the Third Addendum, 1941, and the Fourth Addendum, 1941, apply to all matter contained in this Addendum, unless the contrary is specifically stated.

This Addendum has the same authority as the British Pharmacopœia, 1932, as amended by the Addendum, 1936, the Second Addendum, 1940, the Third Addendum, 1941, and the Fourth Addendum, 1941. Monographs or appendices of the British Pharmacopœia, 1932, or of these Addenda, which are amended by this Fifth Addendum, supersede, in their amended forms, the original monographs or appendices.

NOTICE CONCERNING CONCENTRATED PREPARATIONS

As a war-time measure to economise alcohol, this Addendum contains certain monographs giving formulæ for concentrated preparations to be used as alternatives to the corresponding preparations of the British Pharmacopœia. Authority for this use is given by a Scarce Substances Order, 1942 (Statutory Rules and Orders, No. 709).

The restricted use, during the present emergency, of certain drugs contained in these preparations has been advised. The inclusion of the formulæ does not represent a recommendation of the use of the drugs, but merely provides for their use in the form which requires the least possible amount of alcohol.

PREFACE

TO THE FIFTH ADDENDUM TO THE BRITISH PHARMACOPŒIA, 1932

SECTION 54 of the Medical Act, 1858, provides that the General Council of Medical Education and Registration of the United Kingdom 'shall cause to be published under their direction a Book containing a list of medicines and compounds, and the manner of preparing them, together with the true weights and measures by which they are to be prepared and mixed, and containing such other matter and things relating thereto as the General Council shall think fit, to be called "The British Pharmacopœia"; and the General Council shall cause to be altered, amended, and republished, such Pharmacopœia as often as they shall deem it necessary.'

This Addendum to the British Pharmacopœia, 1932, has been prepared by the British Pharmacopœia Commission and approved by the Pharmacopœia Committee of the Council in the discharge of the duty entrusted to them by the Standing Orders of the Council to deal with all matters relating to the preparation and publication of the British Pharmacopœia.

The Pharmacopœia Committee of the Council, in a Report made by it to the Council in accordance with the Standing Orders, has conveyed to the Council a cordial expression of its appreciation of the work done by the Commission in preparing this Addendum; and also by the persons and bodies, both in this country and abroad, by whose collaboration that task has been facilitated.

GENERAL MEDICAL COUNCIL OFFICE,
44 HALLAM STREET, PORTLAND PLACE,
LONDON, W.1.

THE BRITISH PHARMACOPŒIA COMMISSION

Chairman : * J. A. GUNN, M.D., Professor of Therapeutics in the University of Oxford.

R. R. BENNETT, B.Sc., Chairman of the British Pharmaceutical Conference, 1928 and 1929.

O. L. V. S. DE WESSELOW, D.M., Professor of Medicine in the University of London.

F. R. FRASER, M.D., Professor of Medicine in the University of London.

P. HARTLEY, C.B.E., M.C., D.Sc., Director of Biological Standards, the National Institute for Medical Research, Hampstead.

B. F. HOWARD, Vice-President of the Institute of Chemistry, 1930-1933.

D. HUNTER, M.D., Physician to the London Hospital.

W. H. LINSSELL, D.Sc., Reader in Pharmaceutical Chemistry in the University of London.

T. TICKLE, B.Sc., Public Analyst to the County of Devon.

Secretary : C. H. HAMPSHIRE, M.B., B.Sc.

* Dr. A. P. BEDDARD, Consulting Physician to Guy's Hospital, was Chairman of the Commission until his death in November 1939.

ADDITIONS TO THE BRITISH PHARMACOPŒIA, 1932

Emulsio Chloroformi	Tinctura Cinchonæ Composita Concentrata
Emulsio Menthæ Piperitæ	Tinctura Gentianæ Composita Concentrata
Extractum Quillaie Liquidum	Tinctura Limonis Concentrata
Extractum Scilla Liquidum	Tinctura Lobeliae Ætherica Concentrata
Liquor Æthylis Nitritus Concentratus	Tinctura Opii Camphorata Concentrata
Liquor Ammoniae Aromaticus	Tinctura Quassiae Concentrata
Tinctura Aurantii Concentrata	Tinctura Tolutana Concentrata
Tinctura Capsici Concentrata	Tinctura Valerianæ Ammoniata Concentrata
Tinctura Cardamomi Composita Concentrata	

MONOGRAPH OF THE BRITISH PHARMACOPŒIA, 1932, WHICH WAS AMENDED BY NOTICE IN THE LONDON, EDINBURGH, BELFAST AND DUBLIN GAZETTES, WITH EFFECT FROM MARCH 20TH, 1942

Extractum Malti

MONOGRAPHS OF THE BRITISH PHARMACOPŒIA, 1932, AND ADDENDA, WHICH ARE AMENDED BY THE FIFTH ADDENDUM

Belladonna Pulverata	Extractum Filicis
Belladonnae Folium	Linimentum Belladonnae
Belladonnae Radix	Menthol
Digoxinum	Mepacrine Methanosulphonas
Extractum Belladonnae Liquidum	Syrupus Aurantii
	Tinctura Belladonnae

APPENDICES TO THE BRITISH PHARMACOPŒIA, 1932, AND ADDENDA, WHICH ARE AMENDED BY THE FIFTH ADDENDUM

- Appendix I. Materials and Solutions Employed in Tests
- Appendix XVI. Special Processes Used in Preparing Solutions and Suspensions for Parenteral Injection

MONOGRAPHS

BELLADONNA PULVERATA

[Bellad. Pulverat.]

Powdered Belladonna Leaf

Synonym. Pulvis Belladonnæ.

British Pharmacopœia, 1932, page 82, *delete* lines 39 to 41; page 83, *delete* lines 1 and 2, *insert* "Powdered Belladonna Leaf is Belladonna Leaf from *Atropa Belladonna* or *Atropa lutescens* or any mixture of the two, reduced to a *fine powder* and adjusted, if necessary, either by the admixture in suitable proportions of powdered belladonna leaf, having lower or higher alkaloidal content, or by the addition of powdered exhausted Belladonna Leaf, to contain 0.3 per cent. of alkaloids, calculated as hyoscyamine (limits 0.28 to 0.32)."

BELLADONNÆ FOLIUM

[Bellad. Fol.]

Belladonna Leaf

British Pharmacopœia, 1932, page 83, line 19, after "Linn.," *insert* "or of *Atropa lutescens* Jacquem. (Indian Belladonna)."

delete lines 20 to 25, *insert* "dried. The leaf of *Atropa Belladonna* contains not less than 0.3 per cent., and that of *Atropa lutescens* not less than 0.15 per cent., of the alkaloids of Belladonna Leaf, calculated as hyoscyamine."

line 26, after "Characters" *insert* "*Atropa Belladonna*".

page 84, after line 4, *insert* "*Atropa lutescens*. Closely resembles the leaf of *Atropa Belladonna*, from which it differs in the following particulars. Leaves, oblong-elliptical, taper-

ing at both the apex and base of the lamina, pale green. Flowers, funnel-shaped, yellow. Fruit, a sub-globular berry."

line 5, *delete* "Ash not more than 15 per cent."

line 6, after "per cent." *insert* "stem having a width greater than 5 millimetres, not more than 3 per cent.; other foreign organic matter, not more than 2 per cent."

lines 34 to 37, *delete* "Remove the chloroform, add to the residue 2 millilitres of *dehydrated alcohol*, evaporate to dryness, and dry for half an hour at 100°;"

insert "Remove most of the chloroform and transfer the remainder of the chloroform solution to a shallow open dish. Complete the removal of the chloroform, add to the residue 2 millilitres of *dehydrated alcohol*, evaporate to dryness, and dry at 100° for two hours, or until moist red *litmus paper* held just above the residue for two minutes does not change colour."

line 43, after "Preparations" *insert* "In making these preparations, *Belladonna Leaf* from *Atropa Belladonna* or from *Atropa lutescens* (Indian Belladonna), or a mixture of the two, may be used."

BELLADONNÆ RADIX

[Bellad. Rad.]

Belladonna Root

British Pharmacopœia, 1932, page 85, line 5, after "Linn." *insert* "or of *Atropa lutescens* Jacquem. (Indian Belladonna)."

delete lines 5 to 7, *insert* "Linn. The root of *Atropa Belladonna* contains not less than 0.4 per cent., and that of *Atropa lutescens* not less than 0.25 per cent., of the alkaloids of Belladonna Root, calculated as hyoscyamine."

line 8, after "Characters" *insert* "*Atropa Belladonna*".

after line 18, *insert* "*Atropa lutescens*. Nearly cylindrical pieces about 0.5 to 3 centimetres in diameter, occasionally branched; pieces including the crown, about 3 to 9 centimetres in diameter at the summit, bearing the bases of about 4 to 12 aerial stems. Root, slightly contorted; externally pale brownish-grey and wrinkled longitudinally; internally, a rather dark bark about 1 millimetre thick surrounding a yellowish-grey woody core, consisting of a central, solid cylinder of porous xylem, externally to which are from 1 to 4 concentric cylinders of yellowish xylem strands separated by narrow cylinders of parenchyma and sieve tissue, and traversed radially by numerous

narrow medullary rays; cork, consisting of several layers of brownish cells; secondary phloem with scattered slightly lignified fibres and fibrous cells, collapsed sieve tubes and cells with brown colouring matter; primary xylem diarch; several, usually up to 4, concentric cylindrical tubes of secondary xylem composed of large vessels, about 100 to 250 microns in diameter, with small tracheids and xylem parenchyma; very narrow cylindrical tubes alternating with those of xylem composed of thin-walled, cellulose parenchyma and soft sieve tissue; medullary rays, composed of starch-bearing, thin-walled parenchyma with occasional idioblasts containing sandy, microspenoidal crystals of calcium oxalate; in the central mass, two medullary rays only; in the surrounding xylem cylinders, numerous medullary rays. In the root-stock, a central pith about 5 millimetres in diameter, surrounded by concentric cylinders of xylem strands with medullary rays as in the root; externally, a narrow bark about 1 to 2 millimetres wide; pith, often dark in colour, sometimes fistular. Bases of the aerial stems, about 1 to 2 centimetres in diameter, hollow, with a xylem cylinder about 2 to 3 millimetres thick; cork, phloem and secondary xylem, similar to those of the root; at the centre, a pith composed of thin-walled, rounded cellulose parenchyma, with some idioblasts with sandy, microspenoidal crystals of calcium oxalate; just within the xylem, perimedullary sieve tissue with scattered fibres on the inner side; in the cells of the medullary rays, phloem and xylem parenchyma, small rounded starch grains from 3 to 21, mostly 5 to 15, microns in diameter, with occasional compound grains of 2 components."

delete line 19, *insert* "Tests for Purity. Acid-insoluble ash not more than 2 per cent.; rootstock and aerial stem bases in *Atropa Belladonna* not more than 10 per cent., in *Atropa lutescens* not more than 25 per cent.; other foreign organic matter, not more than 2 per cent."

line 22, after "Preparations" *insert* "In making these preparations, *Belladonna Root* from *Atropa Belladonna* or from *Atropa lutescens* (Indian *Belladonna*), or any mixture of the two, may be used."

DIGOXINUM

[Digoxin.]

Digoxin

Fourth Addendum to the British Pharmacopœia, 1932
page 7, Sterilisation of a Solution.

After line 21, *insert* "The container is sealed by fusion of the glass, and is not opened until the solution has cooled to room temperature."

EMULSIO CHLOROFORMI

[Emuls. Chlorof.]

Emulsion of Chloroform

Chloroform	50 millilitres
Liquid Extract of Quillaia	1 millilitre
Mucilage of Tragacanth	50 millilitres
Water, sufficient to produce	1000 millilitres

Shake the Chloroform with the Liquid Extract of Quillaia, add the Mucilage of Tragacanth, shake well, and add gradually sufficient suitable potable water to produce the required volume, shaking well after each addition.

DOSES

Metric.
0·3 to 2 mls.

Imperial.
5 to 30 minims.

Emulsion of Chloroform is equivalent, in content of Chloroform, to Spirit of Chloroform.

EMULSIO MENTHÆ PIPERITÆ

[Emuls. Menth. Pip.]

Emulsion of Peppermint

Oil of Peppermint	100 millilitres
Liquid Extract of Quillaia	2·5 millilitres
Water, sufficient to produce	1000 millilitres

Add the Oil of Peppermint to the Liquid Extract of Quillaia, shake, and add gradually sufficient suitable potable water to produce the required volume, shaking well after each addition.

DOSES

Metric.
0·3 to 2 mls.

Imperial.
5 to 30 minims.

Emulsion of Peppermint is equivalent, in content of Oil of Peppermint, to Spirit of Peppermint.

EXTRACTUM BELLADONNÆ LIQUIDUM

[Ext. Bellad. Liq.]

Liquid Extract of Belladonna

In making this Liquid Extract, Belladonna Root from *Atropa Belladonna* or from *Atropa lutescens* (Indian Belladonna), or any mixture of the two, may be used. If Belladonna Root containing less than 0.4 per cent. of the alkaloids of Belladonna Root, calculated as hyoscyamine, is used, the process may be modified, provided that the product complies with the official requirements of alkaloidal content and alcohol content.

EXTRACTUM FILICIS

[Ext. Filic.]

Extract of Male Fern

Arachis Oil, Cottonseed Oil or Sesame Oil may be used, in place of Olive Oil, in making this Extract.

EXTRACTUM MALTI

[Ext. Malt.]

Extract of Malt

British Pharmacopœia, 1932, page 177, line 20,
after "barley, *Hordeum distichon* Linn.", insert "or a mixture of this with not more than 33 per cent. of sound, malted grain of wheat, *Triticum sativum* Lam."

EXTRACTUM QUILLAIAE LIQUIDUM

[Ext. Quill. Liq.]

Liquid Extract of QuillaiaQuillaia, in *moderately fine powder* 1000 grammes

Alcohol (45 per cent.), sufficient to

produce 1000 millilitres

Exhaust the Quillaia by percolation with Alcohol (45 per cent.). Reserve the first 850 millilitres of the percolate; remove the alcohol from the remainder of the percolate, and evaporate the residue to a soft extract. Dissolve this in the reserved portion, and add sufficient Alcohol (45 per cent.) to produce the required volume. Set aside for not less than twenty-four hours. Filter.

DOSES**Metric.**

0.1 to 0.2 ml.

Imperial.

1½ to 3 minims.

Liquid Extract of Quillaia has approximately twenty times the strength of Tincture of Quillaia.

EXTRACTUM SCILLÆ LIQUIDUM

[Ext. Scill. Liq.]

Liquid Extract of SquillSquill, or Indian Squill, in *coarse**powder* 1000 grammes

Alcohol (70 per cent.), sufficient to

produce 1000 millilitres

Exhaust the Squill by percolation with Alcohol (70 per cent.). Reserve the first 850 millilitres of the percolate; remove the alcohol from the remainder of the percolate, and evaporate the residue to a soft extract. Dissolve this in the reserved portion, and add sufficient Alcohol (70 per cent.) to produce the required volume. Set aside for not less than twenty-four hours. Filter.

DOSES**Metric.**

0.03 to 0.2 ml.

Imperial.

1/3 to 3 minims.

Liquid Extract of Squill has approximately ten times the strength of Tincture of Squill.

LINIMENTUM BELLADONNÆ

[Lin. Bellad.]

Liniment of Belladonna

In making this Liniment, Belladonna Root from *Atropa Belladonna* or from *Atropa lutescens* (Indian Belladonna), or any mixture of the two, may be used. If Belladonna Root containing less than 0.4 per cent. of the alkaloids of Belladonna Root, calculated as hyoscyamine, is used, the process may be modified, provided that the product complies with the official requirements of alkaloidal content and alcohol content.

LIQUOR ÆTHYLIS NITRITIS
CONCENTRATUS

[Liq. Æthyl. Nitrit. Conc.]

Concentrated Solution of Ethyl Nitrite

Concentrated Solution of Ethyl Nitrite is a solution of ethyl nitrite in Alcohol (95 per cent.). When freshly prepared it contains not less than 17.0 per cent. w/v and not more than 20 per cent. w/v of $C_2H_5O_2N$; after storage, and when the container has been opened occasionally, it contains not less than 10 per cent. w/v of $C_2H_5O_2N$. The ethyl nitrite may be prepared by the interaction of alcohol, sodium nitrite and dilute sulphuric acid at a low temperature.

Characters. A transparent, faintly yellow liquid; odour, characteristic and penetrating; taste, characteristic.

Test for Identity. Pour 5 millilitres on to the surface of 5 millilitres of a strong aqueous solution of *ferrous sulphate*, acidified with *sulphuric acid*; a deep olive-brown colour is produced at the zone of contact.

Assay. Dilute 5 millilitres to 40 millilitres with *alcohol (95 per cent.)*. Introduce 2 millilitres into a brine-charged nitrometer and complete the Assay as described under '*Spiritus Ætheris Nitrosi*'.

Storage. Concentrated Solution of Ethyl Nitrite should be kept in a small well-closed container, protected from light, and stored in a cool place.

DOSES

Metric.	Imperial.
0.125 to 0.5 mil.	2 to 8 minims.

Concentrated Solution of Ethyl Nitrite has approximately eight times the strength, in content of ethyl nitrite, of Spirit of Nitrous Ether.

LIQUOR AMMONIÆ AROMATICUS

[Liq. Ammon. Aromat.]

Aromatic Solution of Ammonia

Aromatic Solution of Ammonia contains ammonia and ammonium carbonate, together equivalent to not less than 2.1 per cent. w/v and not more than 2.4 per cent. w/v of NH_3 ; and not less than 1.265 per cent. w/v and not more than 1.485 per cent. w/v of CO_2 .

Ammonium Carbonate	25 grammes
Strong Solution of Ammonia	52.5 millilitres
Oil of Lemon	0.5 millilitre
Oil of Nutmeg	0.3 millilitre
Alcohol (90 per cent.)	37.5 millilitres
Distilled Water, sufficient to produce	1000 millilitres

Dissolve the Ammonium Carbonate in 800 millilitres of Distilled Water; add the Oil of Lemon and the Oil of Nutmeg, dissolved in the Alcohol (90 per cent.), the Strong Solution of Ammonia and sufficient Distilled Water to produce the required volume. Add 25 grammes of *powdered talc* or of *kieselguhr*, shake well and filter.

Characters. A nearly colourless, transparent liquid; odour and taste, pungent, aromatic and ammoniacal.

Assay. Carry out the Assay as directed under 'Spiritus Ammonia Aromaticus'.

DOSES

Metric.	Imperial.
1 to 4 mls.	15 to 60 minims.

Aromatic Solution of Ammonia is equivalent, in content of ammonia and ammonium carbonate, to Aromatic Spirit of Ammonia.

MENTHOL

[Menthol]

Menthol

 $C_{10}H_{18}OH$ Mol. Wt. 156.2

Menthol is lævo-menthol, natural or synthetic, or racemic menthol, or any mixture of the stereoisomers of *p*-menthan-3-ol.

Characters. Colourless, acicular or prismatic, crystals; odour, penetrating, resembling that of peppermint; taste, warm and aromatic, followed by a sensation of cold.

Very soluble in *alcohol* (90 per cent.), in *ether*, and in *chloroform*; freely soluble in *light liquid paraffin*, and in *essential oils*.

Tests for Identity. Dissolve 0.01 gramme in 1 millilitre of *sulphuric acid* and add 1 millilitre of *solution of vanillin in sulphuric acid*; an orange-yellow colour is produced; on adding 1 millilitre of *water*, the colour changes to violet (distinction from thymol).

Dissolve a few crystals in 1 millilitre of *glacial acetic acid*, add 3 drops of *sulphuric acid* and 1 drop of *nitric acid*; no green colour is developed (distinction from thymol).

Tests for Purity. An alcoholic solution is neutral to *solution of litmus*.

To an alcoholic solution add *test-solution of ferric chloride*, no colour is produced (absence of phenolic substances).

Heated on a water-bath in an open dish, it is volatilised, and leaves not more than 0.05 per cent. of residue.

Menthol may occur in the following forms:—

Lævo-Menthol, natural (obtained from the volatile oils of various species of *Mentha*) or synthetic.

Tests for Identity and Purity. Melting-point, 42° to 44° ; *specific rotation*, in a 10 per cent. w/v solution in *alcohol* (90 per cent.), -49° to -50° .

Racemic Menthol.

Tests for Identity and Purity. *Freezing-point*, 27° to 28° , rising on prolonged stirring to 30° to 32° ; *melting-point*, 32.5° to 34° ; optically inactive.

Mixed Isomeric Menthols, any mixture of the stereoisomers of *p*-menthan-3-ol, of *melting-point* not below 31.5° .

DOSES

Metric.

0.03 to 0.12 gramme.

Imperial.

 $1\frac{1}{2}$ to 2 grains.

MEPACRINÆ METHANOSULPHONAS

[Mepacr. Methanosulph.]

Mepacrine Methanesulphonate

Third Addendum to the British Pharmacopœia, 1932, page 16, line 4, after " $2\text{CH}_3\text{SO}_3\text{H}$," insert "calculated with reference to the substance dried over sulphuric acid in a vacuum desiccator."

Before **DOSES** insert "Sterilisation of a Solution. Mepacrine Methanesulphonate is prepared in sterile solution for parenteral injection by dissolving it in the requisite amount of Sterilised Water, immediately before use."

SYRUPUS AURANTII

[Syr. Aurant.]

Syrup of Orange

Concentrated Tincture of Orange 30 millilitres

Syrup, sufficient to produce 1000 millilitres

Mix.

DOSES

Metrie.
2 to 8 mlls.

Imperial.
30 to 120 minims

TINCTURA BELLADONNÆ

[Tinct. Bellad.]

Tincture of Belladonna

In making this Tincture, Belladonna Leaf from *Atropa Belladonna* or *Atropa lutescens* (Indian Belladonna), or any mixture of the two, may be used. If Belladonna Leaf containing less than 0.3 per cent. of the alkaloids of Belladonna Leaf, calculated as hyoscyamine, is used, the process may be modified, provided that the product complies with the official requirements of alkaloidal content and *alcohol content*.

TINCTURÆ CONCENTRATÆ

Concentrated Tinctures

GENERAL PROCESSES

(a) *Maceration*. See British Pharmacopœia, 1932, page 436, Tincturæ, General Processes (a).

(b) *Percolation*. See British Pharmacopœia, 1932, page 436, Tincturæ, General Processes (b).

(c) Prepare the official Tincture. Remove the alcohol from the Tincture by distillation under reduced pressure, and evaporate the residue to a soft extract at a temperature not exceeding 60°; dissolve the soft extract in a suitable quantity of the first portion of the distillate where so directed, or of menstruum of the same strength as that used for preparing the Tincture, filter, then add a sufficient quantity of the menstruum to produce 1000 millilitres.

(d) Exhaust the powdered drug or drugs with the menstruum by percolation; remove the alcohol from the percolate by distillation under reduced pressure, and evaporate the residue to a soft extract at a temperature not exceeding 60; dissolve the soft extract in about 800 millilitres of the menstruum; filter; add the other ingredients, if any, and a sufficient quantity of the menstruum to produce 1000 millilitres. Filter if necessary.

In making the soft extract the menstruum may be replaced by Industrial Methylated Spirit, diluted so as to be of equivalent alcoholic strength, provided that the law and the statutory regulations governing the use of Industrial Methylated Spirit are observed. In particular, no Industrial Methylated Spirits whatsoever must remain in the soft extract when the distillation and evaporation processes have been completed. Industrial Methylated Spirit must not be used as the menstruum in the subsequent process of dissolving the soft extract.

A Concentrated Tincture is made as directed in the appropriate monograph. Other methods may be used provided that the product is indistinguishable from a Concentrated Tincture made by following the instructions in the monograph.

TINCTURA AURANTII CONCENTRATA

[Tinct. Aurant. Conc.]

Concentrated Tincture of Orange

Fresh Bitter-Orange Peel, in thin

slices 1000 grammes

Alcohol (90 per cent.) 1000 millilitres

Prepare by General Process (a).

DOSES**Metric.**

0.5 to 1 mil.

Imperial.

8 to 15 minims.

Concentrated Tincture of Orange has approximately four times the strength of Tincture of Orange.

Preparation. Syrupus Aurantii.

TINCTURA CAPSICI CONCENTRATA

[Tinct. Capsic. Conc.]

Concentrated Tincture of CapsicumCapsicum, in *moderately coarse**powder* 200 grammes

Alcohol (60 per cent.) 1000 millilitres
or a sufficient
quantity

Prepare by General Process (a).

Alternatively, this Concentrated Tincture may be prepared by General Process (b), (c) or (d).

DOSES**Metric.**

0.06 to 0.25 mil.

Imperial.

1 to 4 minims.

Concentrated Tincture of Capsicum has approximately four times the strength of Tincture of Capsicum.

TINCTURA CARDAMOMI COMPOSITA CONCENTRATA

[Tinct. Cardam. Co. Conc.]

Concentrated Compound Tincture of Cardamom

Cardamom, in <i>moderately coarse powder</i>	56 grammes
Caraway, in <i>moderately coarse powder</i>	56 grammes
Cinnamon, in <i>moderately coarse powder</i>	112 grammes
Cochineal, in <i>moderately coarse powder</i>	28 grammes
Alcohol (60 per cent.), sufficient to produce	1000 millilitres

Prepare by General Process (b).

DOSES

Metric.

0.5 to 1 mill.

Imperial.

8 to 15 minims.

Concentrated Compound Tincture of Cardamom has approximately four times the strength of Compound Tincture of Cardamom.

TINCTURA CINCHONÆ COMPOSITA CONCENTRATA

[Tinct. Cinchon. Co. Conc.]

Concentrated Compound Tincture of Cinchona

Concentrated Compound Tincture of Cinchona contains 2 per cent. w/v of the alkaloids of Cinchona (limits 1.9 to 2.1).

Extract of Cinchona	200 grammes
Dried Bitter-Orange Peel, bruised	200 grammes
Serpentary, in <i>moderately fine powder</i>	100 grammes
Cochineal, in <i>moderately coarse powder</i>	12 grammes
Alcohol (70 per cent.), sufficient to produce	1000 millilitres

From the Dried Bitter-Orange Peel, the Serpentry and the Cochineal prepare a tincture by General Process (a) using 800 millilitres of Alcohol (70 per cent.) as menstruum, or prepare 800 millilitres of tincture by General Process (b). Dissolve the Extract of Cinchona in the tincture and add sufficient of the Alcohol (70 per cent.) to produce the required volume. Set aside for not less than forty-eight hours; filter.

Assay. Evaporate 5 millilitres to about 2 or 3 millilitres, and complete the Assay as directed under 'Extractum Cinchonæ', commencing with the words 'wash it into a separator . . .', and using, in the final extraction of the alkaloids, successive quantities of 35 millilitres of *chloroform*.

DOSES

Metric.
0.5 to 1 mil.

Imperial.
8 to 15 minims.

Concentrated Compound Tincture of Cinchona has approximately four times the strength of Compound Tincture of Cinchona.

TINCTURA GENTIANÆ COMPOSITA CONCENTRATA

[Tinct. Gent. Co. Conc.]

Concentrated Compound Tincture of Gentian

Gentian, cut small and bruised	400 grammes
Dried Bitter-Orange Peel, bruised	150 grammes
Cardamom, bruised	50 grammes
Alcohol (45 per cent.), sufficient to produce	4000 millilitres

Prepare by General Process (c), using the first 500 millilitres of the distillate as the solvent for the soft extract adjust the volume to 1000 millilitres.

DOSES

Metric.
0.5 to 1 mil.

Imperial.
8 to 15 minims.

Concentrated Compound Tincture of Gentian has approximately four times the strength of Compound Tincture of Gentian.

TINCTURA LIMONIS CONCENTRATA

[Tinct. Limon. Conc.]

Concentrated Tincture of Lemon

Lemon Peel, in thin slices	. 1000 grammes
Alcohol (90 per cent.)	. 1000 millilitres

Prepare by General Process (a).

DOSES

Metric.
0.5 to 1 ml.

Imperial.
8 to 15 minims.

Concentrated Tincture of Lemon has approximately four times the strength of Tincture of Lemon.

**TINCTURA LOBELIÆ ÆTHEREA
CONCENTRATA**

[Tinct. Lobel. Æther. Conc.]

Concentrated Ethereal Tincture of Lobelia

Lobelia, in <i>moderately coarse</i> <i>powder</i>	. 800 grammes
Spirit of Ether, sufficient to produce	. 1000 millilitres

Pack the powder uniformly in a conical percolator, and add sufficient Spirit of Ether to saturate the drug. When liquid begins to drop from the percolator, close the outlet, add sufficient Spirit of Ether to leave a layer above the drug, and allow maceration to continue for twenty-four hours. Allow percolation to proceed slowly, until the percolate measures about 500 millilitres. Press the marc, mix the expressed liquid with the percolate, and add sufficient Spirit of Ether to produce the required volume. Clarify by subsidence, or by filtration.

DOSES

Metric.
0.08 to 0.25 ml.

Imperial.
1½ to 4 minims.

Concentrated Ethereal Tincture of Lobelia has approximately four times the strength of Ethereal Tincture of Lobelia.

TINCTURA OPII CAMPHORATA CONCENTRATA

[Tinct. Opii Camph. Conc.]

Concentrated Camphorated Tincture of Opium

Synonyms. Liquor Opii Camphoratus Concentratus :
Concentrated Camphorated Solution of Opium.

Concentrated Camphorated Tincture of Opium contains 0·40 per cent. w/v of morphine calculated as anhydrous morphine (limits, 0·36 to 0·44).

Tincture of Opium	400 millilitres
Benzoic Acid	40 grammes
Camphor	24 grammes
Oil of Anise	24 millilitres
Alcohol (95 per cent.)	400 millilitres
Distilled Water, sufficient to produce	1000 millilitres

Dissolve the Benzoic Acid, Camphor and Oil of Anise in the Alcohol (95 per cent.); add the Tincture of Opium and sufficient Distilled Water to produce the required volume; filter, if necessary.

Assay. Dilute 10 millilitres to 80 millilitres with *alcohol (60 per cent.)*. Evaporate 10 millilitres of this dilution to dryness and complete the Assay as described under 'Tinctura Opii Camphorata'.

DOSES

Metric.
0·25 to 0·5 mil.

Imperial.
4 to 8 minims.

Concentrated Camphorated Tincture of Opium has approximately eight times the strength of Camphorated Tincture of Opium.

Concentrated Camphorated Tincture of Opium contains in 0·5 mil. 0·002 gramme and in 8 minims about $\frac{1}{4}$ grain of morphine, calculated as anhydrous morphine.

TINCTURA QUASSIÆ CONCENTRATA

[Tinct. Quass. Conc.]

Concentrated Tincture of QuassiaQuassia, in *moderately coarse**powder* 400 grammes

Alcohol (45 per cent.), sufficient to

produce 1000 millilitres

Prepare by General Process (d).

Alternatively, this Concentrated Tincture may be prepared by General Process (c).

DOSES**Metric.**

0.5 to 1 mil.

Imperial.

8 to 15 minims.

Concentrated Tincture of Quassia has approximately four times the strength of Tincture of Quassia.

TINCTURA TOLUTANA CONCENTRATA

[Tinct. Tolu. Conc.]

Concentrated Tincture of Tolu*Synonym.* Concentrated Tincture of Balsam of Tolu.

Balsam of Tolu 400 grammes

Alcohol (90 per cent.), sufficient to

produce 1000 millilitres

Dissolve the Balsam of Tolu in 600 millilitres of Alcohol (90 per cent.); filter, and pass sufficient Alcohol (90 per cent.) through the filter to produce the required volume.

DOSES**Metric.**

0.5 to 1 mil.

Imperial.

8 to 15 minims.

Concentrated Tincture of Tolu has approximately four times the strength of Tincture of Tolu.

TINCTURA VALERIANÆ AMMONIATA CONCENTRATA

[Tinct. Valerian. Ammon. Conc.]

Concentrated Ammoniated Tincture of Valerian

Valerian, or Indian Valerian, in <i>moderately coarse powder</i>	800 grammes
Oil of Nutmeg	12 millilitres
Oil of Lemon	8 millilitres
Strong Solution of Ammonia	133 millilitres
Alcohol (60 per cent.), sufficient to produce	1000 millilitres

Prepare by General Process (d) using Alcohol (60 per cent.) as the menstruum.

DOSES

Metric.
0.5 to 1 mil.

Imperial.
8 to 15 minims.

Concentrated Ammoniated Tincture of Valerian has approximately four times the strength of Ammoniated Tincture of Valerian.

APPENDICES

APPENDIX I

MATERIALS AND SOLUTIONS EMPLOYED IN TESTS

Add the following reagent:—

Paraffin, Light Liquid : of the British Pharmacopœia.

APPENDIX XVI

SPECIAL PROCESSES USED IN PREPARING SOLUTIONS AND SUSPENSIONS FOR PARENTERAL INJECTION

In the list headed *STERILISATION OF SOLUTIONS OF PHARMACOPŒIAL SUBSTANCES*, Fourth Addendum to the British Pharmacopœia, 1932, pages 52-54, after "Digoxinum. Heating in an autoclave. Alcohol (70 per cent.) being used as solvent." insert "The container is sealed by fusion of the glass, and is not opened until the solution has cooled to room temperature."

After the paragraph on Iodoxyllum, insert "Mepacrinæ Methanosulphonas. Dissolving in the requisite amount of Sterilised Water, immediately before use".

CUMULATIVE INDEX

TO THE

FIRST, SECOND, THIRD, FOURTH AND

FIFTH ADDENDA

TO THE

BRITISH PHARMACOPŒIA, 1932

This index is arranged according to the alphabetical order of the English names of the official drugs and preparations. The Latin names of the official drugs and preparations, with the exception of Synonyms, are not included in the Index, because the text of the Addenda, like that of the Pharmacopœia, is arranged according to the alphabetical order of the Latin names.

Synonyms appear with cross references.

Italic figures refer to the Appendices.

ADDENDUM

	FIRST (1936)	SECOND (1940)	THIRD (1941)	FOURTH (1941)	FIFTH (1942)
	<i>page</i>	<i>page</i>	<i>page</i>	<i>page</i>	<i>page</i>
Acacia, Injection of Sodium Chloride and	39				
Acetarsol	3				
Acetarsone, <i>see</i> Acetarsol	3				
Acetate—					
Lead	55				
Acid Hydrochloric, Solution of N 20				41	
Acid Magenta	77				
Acid Magenta and Trinitrophenol, Solution of	78				
Acid, Tannic, Glycerin of				10	
Acid, Tannic, Ointment of		12		37	
Acids—					
Acid, Arsanilic	75				
Acid, Arsanilic, Solution of	75				
Acid, Ascorbic	4				
Acid, Formic	76				
Acid, Hydrochloric, Dilute, FeT				49	
Acid, Hydrofluoric				41	
Acid, Mandelic				1	
Acid, Nicotinic				2	

ADDENDUM

	FIRST (1936) page	SECOND (1940) page	THIRD (1941) page	FOURTH (1941) page	FIFTH (1942) page
Acids (contd.)—					
Acid, Phenylglycollic, <i>see</i>					
Acidum Mandelicum				1	
Acid, Picrolonic	77				
Acid, Sulphanilic	78				
Acid, Sulphuric (50 per cent. v/v)	78				
Acriflavine	6				
Additions	xxiv	ix	vii	vii	vi
Adrenaline	8				
Adrenaline Hydrochloride, Solu- tion of	42				
Adrenaline, Injection of Procaine and				16	
Adsorbate of Vitamin B ₁	57				
Aldehydes in Volatile Oils, Deter- mination of		19			
Alkalinity of Glasses, Tests for Limit of	115				
Almond, Bitter, Purified Volatile Oil of		7			
Aloin	8				
Alum	8				
Alum and Hæmatoxylin, Solution of	76				
Alum, Glycerin of				10	
Amended Appendices		ix	vii	viii	vi
Amended Monographs	xxiv	ix	vii	vii, viii	vi
Ammoniated Tincture of Valerian Amyl Alcohol, Tertiary, <i>see</i> Amyl- eni Hydras				37	
Amylene Hydras			2		
Amylene Hydrate			2, 27		
Aneurine Chloride Hydrochloride, <i>see</i> Aneurine Hydrochloridum			3		
Aneurine Hydrochloride			3		
Anhydrous Sodium Sulphate, <i>see</i> Sodii Sulphas Exsiccatus				31	
Antineuritic Vitamin (Vitamin B ₁), Biological Assay of	91				
Antipneumococcus Serum (Type I) Antipneumococcus Serum (Type I), Biological Assay of	60				
Antipneumococcus Serum (Type II) Antipneumococcus Serum (Type II), Biological Assay of	97				
Antipneumococcus Serum (Type II), Biological Assay of	61				
Antirachitic Vitamin (Vitamin D), Biological Assay of	102				
Antirachitic Vitamin (Vitamin D), Biological Assay of	84				
Antiscorbutic Vitamin (Vitamin C), Biological Assay of	93				
Antitoxin, Gas-gangrene (oedema- tious)	9				

ADDENDUM

	FIRST (1936) page	SECOND (1940) page	THIRD (1941) page	FOURTH (1941) page	FIFTH (1942) page
Antitoxin, Gas-gangrene (œdema- tions), Biological Assay of . . .	102				
Antitoxin, Gas-gangrene (per- fringens), Biological Assay of . . .	86				
Antitoxin, Gas-gangrene (vibrio septicus) . . .	12				
Antitoxin, Gas-gangrene (vibrio septicus), Biological Assay of . . .	106				
Antitoxin, Staphylococcus . . .	11				
Antitoxin, Staphylococcus, Bio- logical Assay of . . .	111				
Aqueous Solution of Iodine . . .	44				
Arachis Oil . . .	75				
Argentum-Proteinicum Forte, <i>see</i> Argentoproteinum . . .	15				
Aromatic Solution of Ammonia . . .					8
Aromatic Waters . . .				3	
Arsanilic Acid . . .	75				
Arsanilic Acid, Solution of . . .	75				
Arsenic, Quantitative Test for . . .	82		29	49	
Ascorbic Acid . . .	4				
Assay of Vitamin A . . .	86	19			
Suggested Details of Bio- logical Method . . .	87				
Suggested Details of Spec- trophotometric Method . . .	89				
Assays, Biological—					
Assay, Biological, of Anti- neuritic Vitamin (Vitamin B ₁) . . .	91				
Assay, Biological, of Anti- pneumococcus Serum (Type I) . . .	97				
Assay, Biological, of Anti- pneumococcus Serum (Type II) . . .	102				
Assay, Biological, of Anti- rachitic Vitamin (Vitamin D) . . .	84				
Assay, Biological, of Anti- scurbic Vitamin (Vitamin C) . . .	93				
Assay, Biological, of Digitalis, Powdered . . .	86				
Assay, Biological, of Gas- gangrene Antitoxin (œdema- tions) . . .	102				
Assay, Biological, of Gas- gangrene Antitoxin (per- fringens) . . .	86				

ADDENDUM

	FIRST (1936) page	SECOND (1940) page	THIRD (1941) page	FOURTH (1941) page	FIFTH (1942) page
Assays, Biological (contd.)—					
Assay, Biological, of Gas-gangrene Antitoxin (vibrio septique)	106				
Assay, Biological, of Staphylococcus Antitoxin	111				
Assay, Biological, of Vitamin A	87				
Atropine Sulphate	16		5		
Australian Committee on Pharmacopœia Revision, <i>see</i> Introduction	xix				
 Basic Bismuth Gallate, <i>see</i> Bismuthi Subgallas				5	
Barium Hydroxide, Solution of, N/10	78				
Beeswax, Yellow	25				
Belladonna Leaf	16				1
Belladonna, Liniment of	42				7
Belladonna, Liquid Extract of	29				5
Belladonna Root					2
Belladonna, Tincture of					10
Benzyl Benzoate				4	
Bicarbonate—					
Potassium	55				
Biological Assays, <i>see</i> Assays, Biological					
Biological Assays, Errors of, <i>see</i> General Notices	1				
Biological Products Committee, <i>see</i> Introduction	xii				
Bismuth, Injection of	37			11	
Bismuth, Precipitated	19				
Bismuth Carbonate	17				
Bismuth Gallate, Basic, <i>see</i> Bismuthi Subgallas				5	
Bismuth Oxychloride	18				
Bismuth Oxychloride, Injection of	38			11	
Bismuth Oxygallate, <i>see</i> Bismuthi Subgallas				5	
Bismuth Salicylate, Injection of	38		11	12	
Bismuth Sodium Tartrate, <i>see</i> Bismuthi et Sodii Tartras	17				
Bismuth Subchloride, <i>see</i> Bismuthi Oxychloridum	18				
Bismuth Subgallate				5	
Bismuthyltartrate—					
Sodium	17				
Bisulphate—					
Quinine	77				

ADDENDUM

	FIRST (1936) page	SECOND (1940) page	THIRD (1941) page	FOURTH (1941) page	FIFTH (1942) page
Blue Ointment, <i>see</i> Unguentum					
Hydrargyri Dilutum				39	
Borax, Honey of				20	
British Pharmacopœia Commission	ix	vii	vi	vi	v
Appointment of, <i>see</i> Preface .	vii				
Bromethol			5		
Buchu	19				
Butyl Alcohol			27		
Cajuput, Oil of	48				
Calciferol	20				
Calciferol, Solution of	42				
Calcium Acid Phosphate	75				
Calcium Chloride	21				
Calcium Chloride, Hydrated	21				
Calcium Gluconate	23				
Calcium Gluconate, Injection of				13	
Calcium Hydroxide	24				
Calcium Lactate	75				
Calomel Injection, <i>see</i> Injectio					
Hydrargyri Subchloridi			11	14	
Calumba	24				
Camphor, Liniment of		3			
Camphor Water				3	
Camphorated Oil, <i>see</i> Linimentum					
Camphoræ		3			
Canadian Committee on Pharma- ceutical Standards, <i>see</i> Intro- duction	xix				
Capsicum, Concentrated Tincture of					12
Capsicum, Ointment of		13			
Capsicum Ointment, <i>see</i> Unguen- tum Capsici		13			
Carbachol			6		
Carbon Dioxide	24				
Carbonate—					
Bismuth	17				
Potassium	55				
Quinine Ethyl	58				
Cardamom, Compound Tincture of				36	
Cardamom, Concentrated Com- pound Tincture of					13
Carvone in Oil of Caraway, and in Oil of Dill, Determination of	83				
Cacara Sagrada, Elixir of				7	
Caselnate—					
Sodium	78				
Chenopodium, Oil of	49				
Chiniofon	25				

ADDENDUM

	FIRST (1936) page	SECOND (1940) page	THIRD (1941) page	FOURTH (1941) page	FIFTH (1942) page
Chlorides—					
Calcium	21				
Calcium, Hydrated	21				
Ferric, Solution of	43				
Ferrous, Citrated	33				
Sodium, Injection of, and Acacia	39				
Sodium, Physiological Solu- tion of	45				
Chlorinated Soda, Surgical Solu- tion of				18	
Chlorocresol			7		
Chloroform, Emulsion of					4
Chloroform Water				3	
Chloromethoxyacridone			27		
Cinchona, Concentrated Com- pound Tincture of					13
Cinchophen	27				
Citrated Ferrous Chloride	33				
Citrates—					
Iron	77				
Iron and Ammonium	33				
Potassium	56				
Sodium	62				
Clinical Committee, <i>see</i> Introduc- tion	xi				
Cod-liver Oil	51				
Cod-liver Oil, Emulsion of		1			
Colour Glasses for the Sulphuric Acid Test on Liquid Paraffin	84				
Committee of Civil Research, Sub- Committee on the British Pharmacopœia, <i>see</i> Preface	vii				
Committee in India on Pharma- copœia Revision, <i>see</i> Intro- duction	xix				
Compound Mixture of Senna				21	
Compound Tincture of Cardamom				36	
Compound Tincture of Rhubarb				36	
Concentrated Camphorated Solu- tion of Opium, <i>see</i> Tinctura Opii Camphorata Concentrata					
Concentrated Solution of Vita- min A		4			16
Concentrated Solution of Vita- min D		5			
Concentrated Solution of Vitamins A and D		6			
Concentrated Tinctures—					
Concentrated Ammoniated Tincture of Valerian					18

CUMULATIVE INDEX TO ADDENDA

25

ADDENDUM

	FIRST (1936) page	SECOND (1940) page	THIRD (1941) page	FOURTH (1941) page	FIFTH (1942) page
Concentrated Tinctures (contd.)—					
Concentrated Camphorated Tincture of Opium					16
Concentrated Compound Tincture of Cardamom					13
Concentrated Compound Tincture of Cinchona					13
Concentrated Compound Tincture of Gentian					14
Concentrated Ethereal Tinc- ture of Lobelia					15
Concentrated Tincture of Bal- sam of Tolu, <i>see</i> Tinctura Tolutana Concentrata					17
Concentrated Tincture of Capsicum					12
Concentrated Tincture of Lemon					15
Concentrated Tincture of Orange					12
Concentrated Tincture of Quassia					17
Concentrated Tincture of Tolu					17
Concentrated Tinctures, General Processes					10
Congo Red, Solution of			23		
Corrigenda	xvi				
Cottonseed Oil	75				
Cresol with Soap, Solution of	43				
Curd Soap	59				
Cyanogen Bromide, Solution of				43	
Cyclohexane	75				
Deletion	xiv				
Determinations—					
Determination of Aldehydes in Volatile Oils		19			
Determination of Carvone in Oil of Caraway, and in Oil of Dill	53				
Determination of Esters in Volatile Oils	53				
Determination of Freezing- point and of Melting-point : Benzyl Benzoate				45	
Determination of Freezing- point, of Melting-point, and of Solidifying-point	79				
Determination of Iodine Value		16			
Determination of Optical Rotation	79				

ADDENDUM

	FIRST (1936) page	SECOND (1940) page	THIRD (1941) page	FOURTH (1941) page	FIFTH (1942) page
Determinations (contd.)—					
Determination of the Un- saponifiable Matter in Fixed Oils, and Fats		18			
Determination of Ultra-Violet Absorption	81	15			
Determination of Viscosity	79			45	
Diachylon, <i>see</i> Emplastrum Plumbi			8		
Diachylon Plaster, <i>see</i> Emplastrum Plumbi			8		
Diazobenzenesulphonic Acid, Solu- tion of			27		
2 : 6-Dichlorophenolindophenol	75				
2 : 6-Dichlorophenolindophenol, Solution of		75			
Digitalis, Fresh Infusion of	37				
Digitalis, Powdered	27				
Digitalis, Tincture of	67				
Digitonin	76				
Digoxin				7	3
Dilute Hydrochloric Acid FeT				49	
Dilute Ointment of Mercury				39	
Dimethylaminobenzaldehyde, Solution of	76				
3 : 5-Dinitrobenzoyl Chloride	76				
Diphenylbenzidine	76				
Diphtheria Prophylactic	68				
Disodium 2-Naphthol-3 : 6 disul- phonate				43	
Distilled Water				3	
Dry Extract of Stramonium	32				
Editorial Committee, <i>see</i> Introduc- tion	xiii				
Elixir of Cascara Sagrada				7	
Emergency Sterilisation, <i>see</i> Note				52	
Emulsions—					
Emulsion of Chloroform					4
Emulsion of Cod-liver Oil		1			
Emulsion of Peppermint					4
Emulsion of Vitaminised Oil		2			
Ephedrine				8	
Ephedrine Hydrochloride				10	
Eosin	76				
Eosin, Solution of	76				
Epinephrine Hydrochloride Solu- tion, <i>see</i> Liquor Adrenalinae					
Hydrochloridi	42				
Ergometrine	28				
Ergot	29				
Ergot, Liquid Extract of	29				

ADDENDUM

	FIRST (1936) page	SECOND (1940) page	THIRD (1941) page	FOURTH (1941) page	FIFTH (1942) page
Ergotoxine Ethanesulphonate	29				
Errors of Biological Assays, <i>see</i> General Notices	1				
Esters in Volatile Oils, Determina- tion of	83				
Ethanesulphonate —					
Ergotoxine	29				
Ether	8				
Ethyl Nitrite, Concentrated Solu- tion of					7
Exsiccated Glauber's Salt, <i>see</i> Sodiu Sulphas Exsiccatus				31	
Exsiccated Sodium Sulphate				31	
Extracts —					
Extract of Belladonna, Liquid	29				5
Extract of Ergot, Liquid	29				
Extract of Hyoscyamus, Liquid	30				
Extract of Male Fern					5
Extract of Malt					5
Extract of Malt with Vitamin- ised Oil		3			
Extract of Quillaia, Liquid					6
Extract of Senega, Liquid	31				
Extract of Stramonium, Dry	32				
Extract of Stramonium, Liquid	31				
Extract, Pituitary (Posterior Lobe)	30				
Fats, Determination of the Un- saponifiable Matter in		18			
Ferric Ammonium Sulphate and Haematoxylin, Solution of	77				
Ferric Chloride, Solution of	43				
Ferrous Chloride, Citrated	33				
Fixed Oils, Determination of the Unsaponifiable Matter in		18			
Formic Acid	76				
Freezing-point, Determination of	79				
Freezing-point and Melting-point, Determination of: Benzyl Benzoate				45	
Fresh Infusion—					
Fresh Infusion of Digitalis	37				
Fuller's Earth	76				
Gas-gangrene Antitoxin (oedema- tions)	9				
Gas-gangrene Antitoxin (oedema- tions), Biological Assay of	102				

ADDENDUM

	FIRST (1938) page	SECOND (1940) page	THIRD (1941) page	FOURTH (1941) page	FIFTH (1941) page
Gas-gangrene Antitoxin (perfringens), Biological Assay of . . .	56				
Gas-gangrene Antitoxin (vibrio septique) . . .	12				
Gas-gangrene Antitoxin (vibrio septique), Biological Assay of . . .	106				
General Chemistry Committee, <i>see</i> Introduction . . .	xii				
General Council of Medical Education and Registration of the United Kingdom . . .	v				
General Notices—					
Errors of Biological Assays . . .	1				
Gentian, Concentrated Compound Tincture of . . .					1.
Glass, Tests for Limit of Alkalinity of . . .	117				
Glauber's Salt, Exsiccated, <i>see</i> Sodii Sulphas Exsiccatus . . .				31	
Gluconate—					
Calcium	23				
Glycerins—					
Glycerin of Alum				10	
Glycerin of Tannic Acid				10	
Hæmatoxylin	76				
Hæmatoxylin and Alum, Solution of . . .	76				
Hæmatoxylin and Ferric Ammonium Sulphate, Solution of . . .	77				
Halibut-liver Oil		8		23	
Hamamelis, Ointment of				37	
Hard Soap	50		19		
Heating in an Autoclave, Sterilisation by				50	
Heating with a Bactericide, Sterilisation by				50	
Hexobarbital, <i>see</i> Hexobarbitonum			8		
Hexobarbitone			8		
Histamine Acid Phosphate	35				
Histaminæ Phosphas, <i>see</i> Histaminæ Phosphas Acidus	35				
Honey of Borax				20	
Hydrated Calcium Chloride	21				
Hydrochloric Acid, Dilute, FeT				49	
Hydrochloric Acid, Solution of, N/20				44	
Hydrochloric Acid, Solution of, N/200, N/1000			28		
Hydrochloride—					
Adrenaline, Solution of	42				

ADDENDUM

	FIRST (1936) page	SECOND (1940) page	THIRD (1941) page	FOURTH (1941) page	FIFTH (1942) page
Hydrofluoric Acid				43	
Hydroxides —					
Barium, Solution of, N. 10	78				
Calcium	24				
Potassium	56				
Sodium	62				
Hyoscyamus	36				
Hyoscyamus, Liquid Extract of	30				
Indian Squill				40	
Indian Valerian				40	
Indicators Employed in Volumetric Determinations and in pH Determinations	79		28		
Indigo Carmine	37				
Infusion —					
Infusion of Digitalis, Fresh	37				
Infusions				10	
Injections —					
Injection of Bismuth	37			11	
Injection of Bismuth Oxychloride	38			11	
Injection of Bismuth Salicylate	38		11	12	
Injection of Calcium Gluconate				13	
Injection of Iron				13	
Injection of Leptazol			11		
Injection of Mercurous Chloride			11	14	
Injection of Mercury			11	13	
Injection of Mersalyl	39			15	
Injection of Nikethamide				16	
Injection of Procaine and Adrenaline				16	
Injection of Quinine and Urethane				17	
Injection of Sodium Chloride and Acacia	39				
Injection of Sodium Morrhuate				17	
Injection, Parenteral, Special Processes Used in Preparing Solutions and Suspensions for				50	18
Injections, Methods of Sterilising Solutions for	117				
Injections, Parenteral, Dispensing of				51	
Insulin	40				
Introduction	xi				
Iodide —					
Sodium	78				

ADDENDUM

	FIRST (1936) page	SECOND (1940) page	THIRD (1941) page	FOURTH (1941) page	FIFTH (1942) page
Iodine, Aqueous Solution of	44				
Iodine, Simple Solution of	45				
Iodine, Solution of, N 20			28		
Iodine, Solution of, N 250				44	
Iodine Value, Determination of		16			
Iodised Oil	49				
Iodoform	41				
IodoxyI			12		
Ipecacuanha	41		13		
Ipecacuanha Radix, <i>see</i> Ipeca- cuanha			13		
Ipecacuanha Root, <i>see</i> Ipeca- cuanha			13		
Ipecacuanha, Tincture of	67			36	
Iron	34				
Iron, Injection of				13	
Iron, Limit Test for				49	
Iron Citrate	77				
Iron and Ammonium Citrate	33				
Irradiated Ergosterol, Solution of	43				
Kaolin, Poultice of				6	
Lactate—					
Calcium	75				
Lactose	41				
Lard	7				
Lavender, Oil of	50				
Lead Acetate	55				
Lead, Plaster of			8		
Lead Plaster, <i>see</i> Emplastrum Plumbi			8		
Lead, Quantitative Test for	82		28	48	
Lemon, Concentrated Tincture of					15
Lemon, Oil of	50				
Leptazol			13		
Leptazol, Injection of			11		
Light Liquid Paraffin				26	19
Limit of Alkalinity of Glass, Tests for	118				
Limit Test for Iron				49	
Limits of error (Biological As- says)—					
Antineuritic Vitamin (Vita- min B ₁)	93				
Antipneumococcus Serum (Type I)	100, 101				
Antiscorbutic Vitamin (Vita- min C).	95, 96				
Errors of Biological Assays, <i>see</i> General Notices	1				

ADDENDUM

	FIRST (1936) page	SECOND (1940) page	THIRD (1941) page	FOURTH (1941) page	FIFTH (1942) page
Limits of error (<i>contd.</i>) —					
Gas-gangrene Antitoxin (oedemations)	106				
Gas-gangrene Antitoxin (vibrio septique)	110				
Staphylococcus Antitoxin	115, 116				
Liniment of Belladonna	42				7
Liniment of Camphor		3			
Liquefied Phenol	55				
Liquid Extracts —					
Liquid Extract of Belladonna	29				5
Liquid Extract of Ergot	29				
Liquid Extract of Hyos- cymus	30				
Liquid Extract of Quillaja					6
Liquid Extract of Senega	31				
Liquid Extract of Squil					6
Liquid Extract of Stramonium	31				
Liquid Paraffin	54				
Liquid Paraffin, Colour Glasses for the Sulphuric Acid Test on	84				
Liquor Iodi Compositus, <i>see</i> Liquor Iodi Aquosus	44				
Liquor Opii Camphoratus Con- centratus, <i>see</i> Tinctura Opii Camphorata Concentrata					16
Lobelia, Concentrated Etheral Tincture of					15
Lugol's Solution, <i>see</i> Liquor Iodi Aquosus	44				
Magenta, Acid	77				
Magnesium Hydroxide, Mixture of				21	
Magnesium Trisilicate				19	
Male Fern, Extract of					5
Malt, Extract of					5
Malt, Extract of, with Vitaminised Oil		3			
Mandelic Acid				1	
Marble	77				
Materials and Solutions employed in Tests	75		27	43	18
Melting-point, Determination of	79				
Menthol	46			21	9
Mepacrine Hydrochloride			14	21	
Mepacrine Methanesulphonate			15		10
Mepacrine Thiocyanate			27		
Mercurial Cream, <i>see</i> Injectio Hydrargyri			11	13	
Mercurial Ointment, <i>see</i> Unguen- tum Hydrargyri Dilutum				39	

ADDENDUM

	FIRST (1936) page	SECOND (1940) page	THIRD (1941) page	FOURTH (1941) page	FIFTH (1942) page
Mercuric Nitrate, Strong Ointment of			25		
Mercuric Nitrate Ointment, <i>see</i> Unguentum Hydrargyri Nitratæ Forte			25		
Mercuric Oxycyanide	36				
Mercurous Chloride, Injection of			11	14	
Mercury, Compound Ointment of		13			
Mercury, Dilute Ointment of				39	
Mercury, Injection of			11	13	
Mercury, Ointment of			24		
Mercury Ointment, <i>see</i> Unguentum Hydrargyri			24		
Mercury Ointment, <i>see</i> Unguentum Hydrargyri Dilutum				39	
Mercury Ointment Compound, <i>see</i> Unguentum Hydrargyri Compositum		13			
Mercury with Chalk	36				
Mersalyl	46				
Mersalyl, Injection of	39			15	
Methods of Sterilising Solutions for Injection	117				
Methyl Salicylate	48				
Mixture of Magnesium Hydroxide				21	
Mixture of Senna, Compound				21	
Morphine Sulphate				22	
β -Naphthol, Solution of	77				
α -Naphthylamine				43	
Neoarsphenamine	48				
Nicotinic Acid				2	
Nikethamide			17		
Nikethamide, Injection of				16	
Nitric Acid PbT			28		
Nitrobenzyl Chloride			27		
Nitrogen				43	
Normal Saline Solution, <i>see</i> Liquor Sodii Chloridi Physiologicus	45				
Notice	vi	iv	iv	iv	iii
Notice Concerning Concentrated Preparations					iii
Notice Concerning Patents			viii	iv	
Nutmeg, Oil of	52				
Oil, Iodised	49				
Oils, Determinations and Tests —					
Oil of Caraway, Determination of Carvone in	83				
Oil of Dill, Determination of Carvone in	83				

ADDENDUM

	FIRST (1936) page	SECOND (1940) page	THIRD (1941) page	FOURTH (1941) page	FIFTH (1942) page
Oils, Essential—					
Oil of Cajuput	48				
Oil of Chenopodium	49				
Oil of Lavender	50				
Oil of Lemon	50				
Oil of Nutmeg	52				
Oil of Peppermint	51				
Oil of Rosemary	53				
Oil of Sandal Wood	53				
Oil of Siberian Fir	48				
Oil of Turpentine	53				
Oils, Fixed—					
Oil, Arachis	75				
Oil, Cod-liver	51				
Oil, Cottonseed	75				
Oil, Olive	52				
Oily Solutions and Suspensions,					
Sterilisation of				51	
Ointments—					
Ointment, Capsicum, <i>see</i> Un-					
guentum Capsici		13			
Ointment, Compound, Mer-					
cury, <i>see</i> Unguentum Hy-					
drargyri Compositum		13			
Ointment, Hydrous		12			
Ointment, Simple	71				
Ointment, Tannic Acid, <i>see</i>					
Unguentum Acidi Tannici		12			
Ointment of Capsicum		13			
Ointment of Hamamelis				37	
Ointment of Mercury			24	38	
Ointment of Mercury, Com-					
pound		13			
Ointment of Mercury, Dilute				39	
Ointment of Sulphur	71				
Ointment of Tannic Acid		12		37	
Strong Ointment of Mercuric					
Nitrate			25		
Olive Oil	52				
Opium, Concentrated Camphor-					
ated Tincture of					16
Optical Rotation, Determination					
of	79				
Orange, Concentrated Tincture					
of					12
Orange, Syrup of					10
Oxychloride—					
Bismuth	18				
Bismuth, Injection of	38				
Oxycyanide—					
Mercurio	36				

ADDENDUM

	FIRST (1936) page	SECOND (1940) page	THIRD (1941) page	FOURTH (1941) page	FIFTH (1942) page
Oxygen					
Oxymel of Squill	54			24	
Pamaquin				24	
Papers published in scientific periodicals, <i>see</i> Introduction	xvi				
Parachlorometacresol, <i>see</i> Chlorocresol			7		
Paraffin, Light Liquid				26	19
Paraffin, Liquid	54				
Parenteral Injections, Dispensing of				51	
Parenteral Injection, Special Processes Used in Preparing Solutions and Suspensions for				50	18
Paste of Tannic Acid			18		
Patents, Notice Concerning			viii	iv	
Peppermint, Emulsion of					
Peppermint, Oil of	51				
Pharmaceutical Chemistry Committee, <i>see</i> Introduction	xiii				
Pharmacology Committee, <i>see</i> Introduction	xii				
Pharmacy and Pharmacognosy Committee, <i>see</i> Introduction	xii				
pH Determinations and Volumetric Determinations, Indicators employed in	79				
Phenitone			16		
Phenol, Liquefied	55				
Phenolphthalein	55				
Phenylglycollic Acid, <i>see</i> Acidum Mandelicum				1	
Phenylhydrazine	77				
Phenylhydrazine Acetate, Solution of			27		
Phenylmercuric Nitrate				26	
Phosphates—					
Calcium Acid	75				
Histamine Acid	35				
Potassium	77				
Sodium	63				
Physiological Saline Solution, <i>see</i> Liquor Sodii Chloridi Physiologicus	45				
Physiological Solution of Sodium Chloride	45			18	
Picrolonic Acid	77				
Pituitary (Posterior Lobe) Extract	30				
Plaster of Lead			8		
Potassium Bicarbonate	55				

ADDENDUM

	FIRST (1936) page	SECOND (1940) page	THIRD (1941) page	FOURTH (1941) page	FIFTH (1942) page
Potassium Carbonate	55				
Potassium Citrate	56				
Potassium Ferriocyanide, Solution of, M/10				44	
Potassium Hydroxide	56				
Potassium Phosphate	77				
Poultice of Kaolin				6	
Powdered Belladonna Leaf					1
Powdered Digitalis	27				
Powdered Digitalis, Biological Assay of	36				
Precipitated Bismuth	19				
Preface	vii	v	v	v	iv
Procaine and Adrenaline, Injection of				16	
Proflavine, see Proflavine Sulphas				27	
Proflavine Sulphate				27	
Pulvis Chiniofoli, see Chiniofolium	25				
Purified Volatile Oil of Bitter Almond		7			
Pyridine	77				
Pyroxylin	58				
Qualitative Reactions and Tests for Substances mentioned in the Pharmacopoeia	82				
Quantitative Test for Arsenic	82		29	49	
Quantitative Test for Lead	82		28	48	
Quassia, Concentrated Tincture of					17
Quillaia, Liquid Extract of					6
Quinine and Urethane, Injection of				17	
Quinine Bisulphate	77				
Quinine Ethyl Carbonate	58				
Reports of Committees, see Intro- duction	xv				
Rhubarb	58				
Rhubarb, Compound Tincture of				36	
Rice Starch	77				
Rosemary, Oil of	53				
Salicylates—					
Bismuth, Injection of	37				
Methyl	48				
Sandal Wood, Oil of	53				
Senega, Liquid Extract of	31				
Senna, Compound Mixture of				21	
Serum, Antipneumococcus (Type I)	60				
Serum, Antipneumococcus (Type I), Biological Assay of	97				

ADDENDUM

	FIRST (1936) page	SECOND (1940) page	THIRD (1941) page	FOURTH (1941) page	FIFTH (1942) page
Serum, Antipneumococcus (Type II)	61				
Serum, Antipneumococcus (Type II), Biological Assay of	102				
Siberian Fir, Oil of	48				
Silver Protein	15				
Silver Proteinatc, <i>see</i> Argento-proteinum	15				
Simple Ointment	71				
Simple Solution of Iodine	45				
Soap, Curd	59				
Soap, Hard	59				
Soap, Soft	59				
Sodium Acetate			27		
Sodium Bismuthyltartrate	17				
Sodium Caseinate	78				
Sodium Chloride, Physiological Solution of	45			18	
Sodium Chloride and Acacia, Injection of	39				
Sodium Citrate	62				
Sodium Hydroxide	62				
Sodium Hydroxide, Solution of				18	
Sodium Hydroxide, Test-solution of				43	
Sodium Iodate				43	
Sodium Iodide	78				
Sodium Lactate (70 per cent.)				29	
Sodium Metabisulphite				29	
Sodium Morrhuate				30	
Sodium Morrhuate, Injection of				17	
Sodium Nitrite, Solution of, N/10				44	
Sodium Phosphate	63				
Sodium Sulphate, Anhydrous, <i>see</i> Sodii Sulphas Exsiccatus				31	
Sodium Sulphate, Exsiccated				31	
Sodium Thiosulphate	63				
Soft Soap	59		20		
Solidifying-point, Determination of	79				
Soluble Hexobarbital, <i>see</i> Hexobarbitonum Solubile			9		
Soluble Hexobarbitone			9		
Solutions—					
Aromatic Solution of Ammonia					8
Concentrated Solution of Ethyl Nitrite					7
Solution, Epinephrine Hydrochloride, <i>see</i> Liquor Adrenalinae Hydrochloridi	42				

ADDENDUM

	FIRST (1936) page	SECOND (1940) page	THIRD (1941) page	FOURTH (1941) page	FIFTH (1942) page
Solutions (contd.)—					
Solution of Adrenaline Hydrochloride	42				
Solution of Barium Hydroxide, N/10	78				
Solution of Calciferol	42				
Solution of Chlorinated Soda, Surgical				18	
Solution of Congo Red			28		
Solution of Cresol with Soap	43			43	
Solution of Cyanogen Bromide					
Solution of Diazobenzenesulphonic Acid			27		
Solution of 2 : 6-Dichlorophenolindophenol	75				
Solution of Dimethylaminobenzaldehyde	76				
Solution of Eosin	76				
Solution of Ferric Chloride	43				
Solution of Hematoxylin and Alum	76				
Solution of Hematoxylin and Ferric Ammonium Sulphate	77				
Solution of Hydrochloric Acid, N/20				44	
Solution of Hydrochloric Acid, N/200, N/1000			28		
Solution of Iodine, Aqueous	44		28		
Solution of Iodine, N/20				44	
Solution of Iodine, N/250					
Solution of Iodine, Simple	45				
Solution of Irradiated Ergosterol	43				
Solution of β -Naphthol	77				
Solution of Phenylhydrazine Acetate			27		
Solution of Potassium Ferricyanide, M/10				44	
Solution of Sodium Chloride, Physiological	45			18	
Solution of Sodium Hydroxide				18	
Solution of Sodium Hydroxide, Test				43	
Solution of Sodium Nitrite, N/10				44	
Solution of Tribromoethyl Alcohol, see Bromethol			5		
Solution of Trinitrophenol and Acid Magenta	78				
Solution of Vanillin in Sulphuric Acid			27		

ADDENDUM

	FIRST (1938) page	SECOND (1940) page	THIRD (1941) page	FOURTH (1941) page	FIFTH (1942) page
Solutions employed in Volumetric Determinations	78		28	44	
Solutions for Injection, Methods of Sterilising	117				
Solutions and Materials employed in Tests	75		27	43	18
Solutions and Suspensions for Parenteral Injection, Special Processes Used in Preparing				50	18
Solutions of Pharmacopoeial Substances, Sterilisation of				52	18
Squill				28	
Squill, Indian				40	
Squill, Liquid Extract of					6
Squill, Oxymel of				24	
Squill, Tincture of				37	
Squill, Vinegar of	4			1	
Standard Preparations—					
Antineuritic Vitamin (Vitamin B ₁)	91				
Antipneumococcus Serum (Type I)	97				
Antipneumococcus Serum (Type II)	102				
Antiscorbutic Vitamin (Vitamin C)	93				
Gas-gangrene Antitoxin (oedemations)	102				
Gas-gangrene Antitoxin (vibrio septique)	107				
Staphylococcus Antitoxin	111				
Vitamin A	86				
Staphylococcus Antitoxin	11				
Staphylococcus Antitoxin, Biological Assay of	111				
Starch	9				
Starch, Rice	77				
Sterilisation by Filtration				51	
Sterilisation by Heating in an Autoclave				50	
Sterilisation by Heating with a Bactericide				50	
Sterilisation, Emergency, see Note				52	
Sterilisation of Glass Vessels and Containers				50	
Sterilisation of Oily Solutions and Suspensions				51	
Sterilisation of Solutions of Pharmacopoeial Substances				53	18
Sterilised Water	14				

ADDENDUM

	FIRST (1936) page	SECOND (1940) page	THIRD (1941) page	FOURTH (1941) page	FIFTH (1942) page
Stibophen			23		
Stramonium, Dry Extract of	32				
Stramonium, Liquid Extract of	31				
Stramonium, Tincture of	67				
Strong Ointment of Mercuric Nitrate			25		
Strong Protein Silver, <i>see</i> Argentoproteinum	15				
Sulphanilamide				32	
Sulphanilic Acid	78				
Sulpharsphenamine	64				
Sulphates—					
Atropine	16				
Zinc	72				
Sulphur Dioxide	78				
Sulphuric Acid PbT			28		
Sulphuric Acid (50 per cent. v/v)	78				
Sulphuric Acid Test on Liquid Paraffin, Colour Glasses for	84				
Sulphur, Ointment of	71				
Suramin				33	
Surgical Solution of Chlorinated Soda				18	
Syrup of Orange					10
Syrup of Virginian Prune, <i>see</i> Syrupus Pruni Serotinae				35	
Syrup of Wild Cherry				35	
Syrupus Pruni Virginiana, <i>see</i> Syrupus Pruni Serotinae				35	
Tannic Acid, Glycerin of				10	
Tannic Acid Jelly, <i>see</i> Pasta Acidi Tannici			18		
Tannic Acid, Ointment of		12		37	
Tannic Acid Ointment, <i>see</i> Unguentum Acidi Tannici		12			
Tannic Acid, Paste of			18		
Tartaric Acid PbT			29		
Tartrate—					
Bismuth Sodium, <i>see</i> Bismuthi et Sodii Tartras	17				
Tertiary Amyl Alcohol, <i>see</i> Amyleni Hydras			2		
Tests and Qualitative Reactions for Substances mentioned in the Pharmacopoeia	82				
Tests for Limit of Alkalinity of Glass	118				
Test-solution of Sodium Hydroxide				43	
Tetanus Toxoid		10			

ADDENDUM

	FIRST (1936) page	SECOND (1940) page	THIRD (1941) page	FOURTH (1941) page	FIFTH (1942) page
Theophylline	64				
Thiamine Hydrochloride, <i>see</i> Aneurins Hydrochloridum			3		
Thiosulphate—					
Sodium	63				
Thiosulphates, Qualitative Reac- tions and Tests for	82				
Thyroid	65				
Thyroxine-sodium	66				
Tinctures—					
Tincture of Belladonna					10
Tincture of Cardamom, Com- pound				36	
Tincture of Digitalis	67				
Tincture of Ipecacuanha	67			36	
Tincture of Rhubarb, Com- pound				36	
Tincture of Squill				37	
Tincture of Stramonium	67				
Tincture of Valerian, Am- moniated				37	
Tinctures, Concentrated, <i>see</i> Con- centrated Tinctures					11
Tolu, Concentrated Tincture of					17
Tribromoethyl Alcohol			1		
Tribromoethyl Alcohol, Solution of, <i>see</i> Bromethol			5		
Trinitrophenol and Acid Magenta, Solution of	78				
Tryparamide	69				
Turpentine, Oil of	53				
Ultra-violet Absorption, Deter- mination of	81	15			
Unguentum Hydrargyri Nitratis, <i>see</i> Unguentum Hydrargyri Nitratis Forte			25		
Union of South Africa, Depart- ment of Public Health, <i>see</i> Introduction	xix				
Units—					
Antineuritic Activity (Vita- min B ₁)	91				
Antipneumococcus Serum (Type I)	97				
Antipneumococcus Serum (Type II)	102				
Antiscorbutic Activity (Vita- min C)	94				
Gas-gangrene Antitoxin (oedematisans)	103				

ADDENDUM

	FIRST (1936) page	SECOND (1940) page	THIRD (1941) page	FOURTH (1941) page	FIFTH (1942) page
Units (cont.)—					
Gas-gangrene Antitoxin (vibrio septique)	107				
Staphylococcus Antitoxin	111				
Vitamin A	87				
Unsatifiable Matter in Fixed Oils, and Fats, Determination of		18			
Urea				43	
Urethane				39	
Urethane, Injection of Quinine and				17	
Valerian	71			40	
Valerian, Ammoniated Tincture of				37	
Valerian, Concentrated Ammoni- ated Tincture of					18
Valerian, Indian				40	
Vanillin, Solution of, in Sulphuric Acid			27		
Vinegar of Squill	4			1	
Virginian Prune, Syrup of, <i>see</i> Syrupus Pruni Serotinae				35	
Viscosimeters, Dimensions of				46	
Viscosity, Determination of	79			45	
Vitamin A, Assay of		19			
Vitamin A, Concentrated Solution of		4			
Vitamin B ₁ , <i>see</i> Aneurine Hydro- chloridum			3		
Vitamin D, Concentrated Solution of		5			
Vitamin Committee, <i>see</i> Introduc- tion	xiii				
Vitaminised Oil		9			
Vitaminised Oil, Emulsion of		2			
Vitaminised Oil, Extract of Malt with		3			
Vitamins A and D, Concentrated Solution of		6			
Vitamins—					
Vitamin A, Assay of	86				
Vitamin B ₁ , Adsorbate of	57				
Vitamin C, <i>see</i> Acidum Ascor- bicum	4				
Vitamins, Biological Assays, <i>see</i> Assays, Biological					
Volatile Oils, Determination of Aldehydes in		19			
Volatile Oils, Determination of Esters in	83				
Volumetric Determinations, Solu- tions employed in	78				

ADDENDUM

	FIRST (1936) page	SECOND (1940) page	THIRD (1941) page	FOURTH (1941) page	FIFTH (1942) page
Volumetric Determinations and pH Determinations, Indicators employed in . . .	79				
Water, Sterilised . . .	14				
Waters, Aromatic . . .				3	
Weights and Measures . . .	118				
Wild Cherry, Syrup of . . .				35	
Wool Fat . . .	7				
Yellow Beeswax . . .	25				
Zinc Sulphate . . .	72			43	

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